

Naval Safety



save lives | preserve resources | improve readiness



Flight Safety International Dallas, Texas 21 October 2004

***RADM Richard Brooks, USN
Commander, Naval Safety Center***





Magnitude of Accidents

In FY04, Navy and Marine Corps Mishaps Resulted In:

NAVY

- **1 Navy death every 80 hours**
- **1 POV death every 124 hours**
- **1 Aviation death every 73 days**
- **1 Active duty military injury every 6 hours**
- **1.8 Military members hospitalized every day**
- **11.33 Civilian man-years lost**
- **1 Aircraft destroyed every 52 days**
- **\$1.21 Million a day in aviation losses**

MARINE CORPS

- **1 Marine death every 88 hours**
- **1 POV death every 191 hours**
- **1 Aviation death every 26 days**
- **1 Active duty military injury every 25 hours**
- **1.9 Military members hospitalized every day**
- **2.53 Civilian man-years lost**
- **1 Aircraft destroyed every 23 days**
- **\$1.74 Million a day in aviation losses**



Secretary Rumsfeld's Challenge



THE SECRETARY OF DEFENSE
1000 DEFENSE PENTAGON
WASHINGTON, DC 20301-1000

May 19, 2003

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
UNDER SECRETARIES OF DEFENSE
DIRECTOR, DEFENSE RESEARCH AND ENGINEERING
ASSISTANT SECRETARIES OF DEFENSE
GENERAL COUNSEL OF THE DEPARTMENT OF DEFENSE
INSPECTOR GENERAL OF THE DEPARTMENT OF DEFENSE
DIRECTOR, OPERATIONAL TEST AND EVALUATION
ASSISTANTS TO THE SECRETARY OF DEFENSE
DIRECTOR, ADMINISTRATION AND MANAGEMENT
DIRECTOR, FORCE TRANSFORMATION
DIRECTOR, NET ASSESSMENT
DIRECTOR, PROGRAM ANALYSIS AND EVALUATION
DIRECTORS OF THE DEFENSE AGENCIES
DIRECTORS OF THE DOD FIELD ACTIVITIES

SUBJECT: Reducing Preventable Accidents

World-class organizations do not tolerate preventable accidents. Our accident rates have increased recently, and we need to turn this situation around. I challenge all of you to reduce the number of mishaps and accident rates by at least 50% in the next two years. ~~These goals are achievable, and will directly increase our operational readiness. We owe no less to the men and women who defend our Nation.~~

I have asked the Under Secretary of Defense for Personnel and Readiness to lead a department-wide effort to focus our accident reduction effort. I intend to be updated on our progress routinely. The USD(P&R) will provide detailed instructions in separate correspondence.



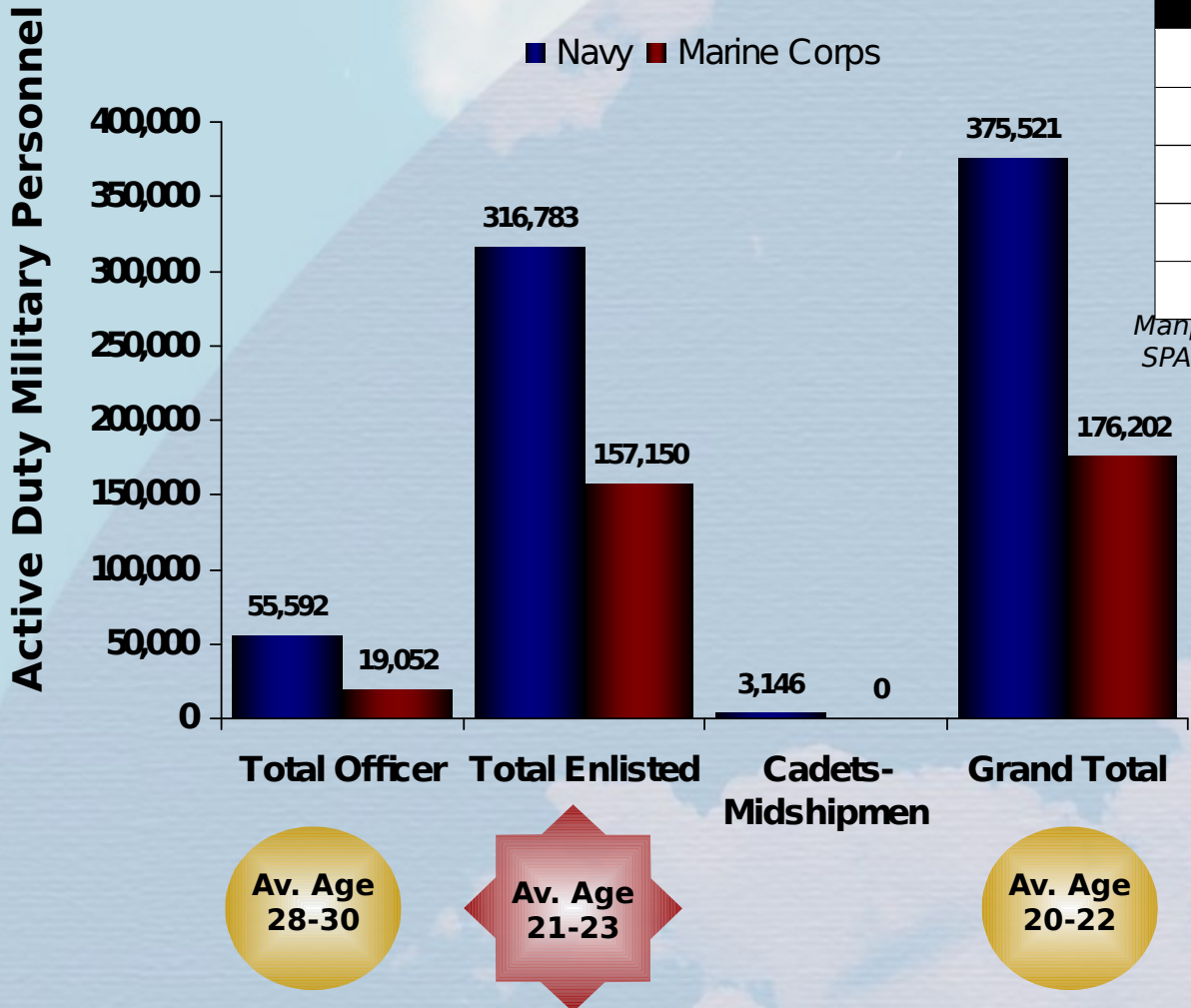
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“World-class organizations do not tolerate preventable accidents. Our accident rates have increased recently, and we need to turn this situation around. I challenge all of you to reduce the number of mishaps and accident rates by at least 50% in the next two years.”

Memorandum from Secretary of Defense
19 May 2003



USN/USMC Active Duty Personnel



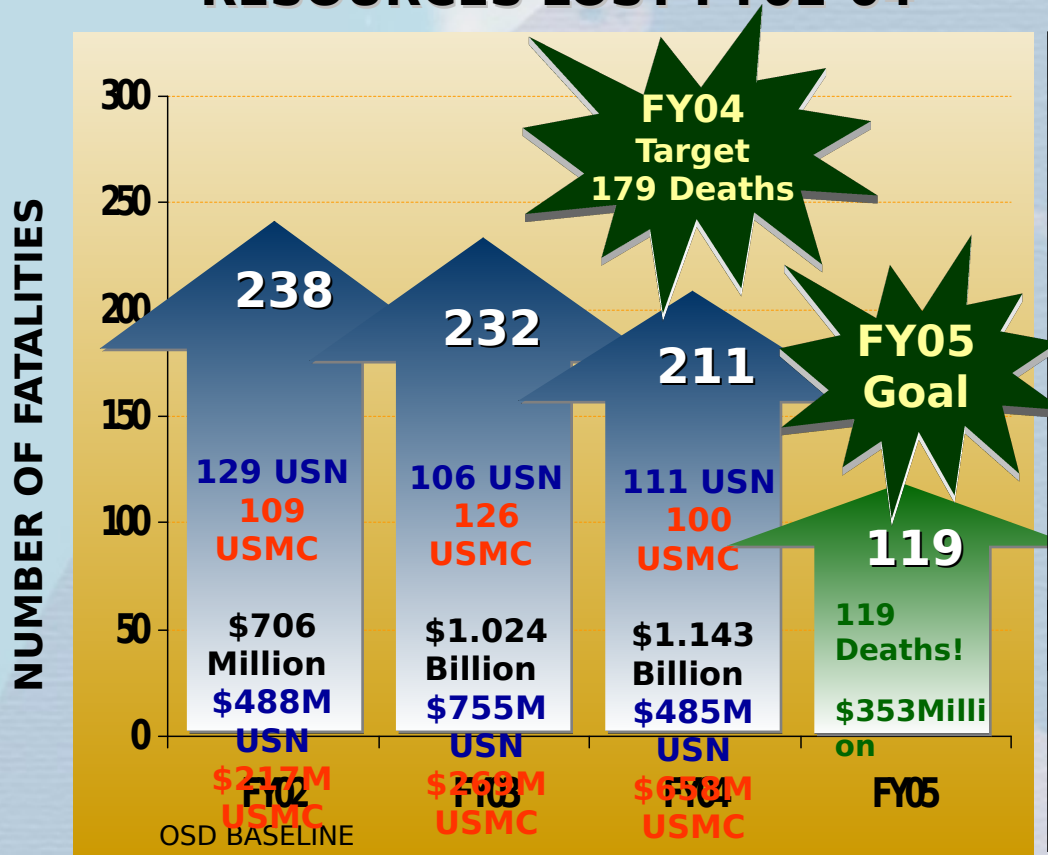
Age Group	USN	USMC
18-21	17.66 %	38.7 %
22-27	34.20 %	34.5 %
28-35	25.03 %	16.5 %
36-45	19.94 %	8.9 %
46-55	3.17 %	1.1 %

Manpower and Reserve Affairs, 24 September 2004
 SPAWARITC (Reports Division), 24 September 2004



Where We Are

USN/USMC FATALITIES & RESOURCES LOST FY02-04



We experienced 211 deaths in FY04

(111 USN & 100 USMC)

Our FY05 50% mishap reduction

Naval Aviation mishap costs have exceeded \$1Billion!

***OUR ENDSTATE GOAL IS
ZERO!***



Where More Attention Is Needed

The Largest Challenge: Aviation - Traffic - Recreation!



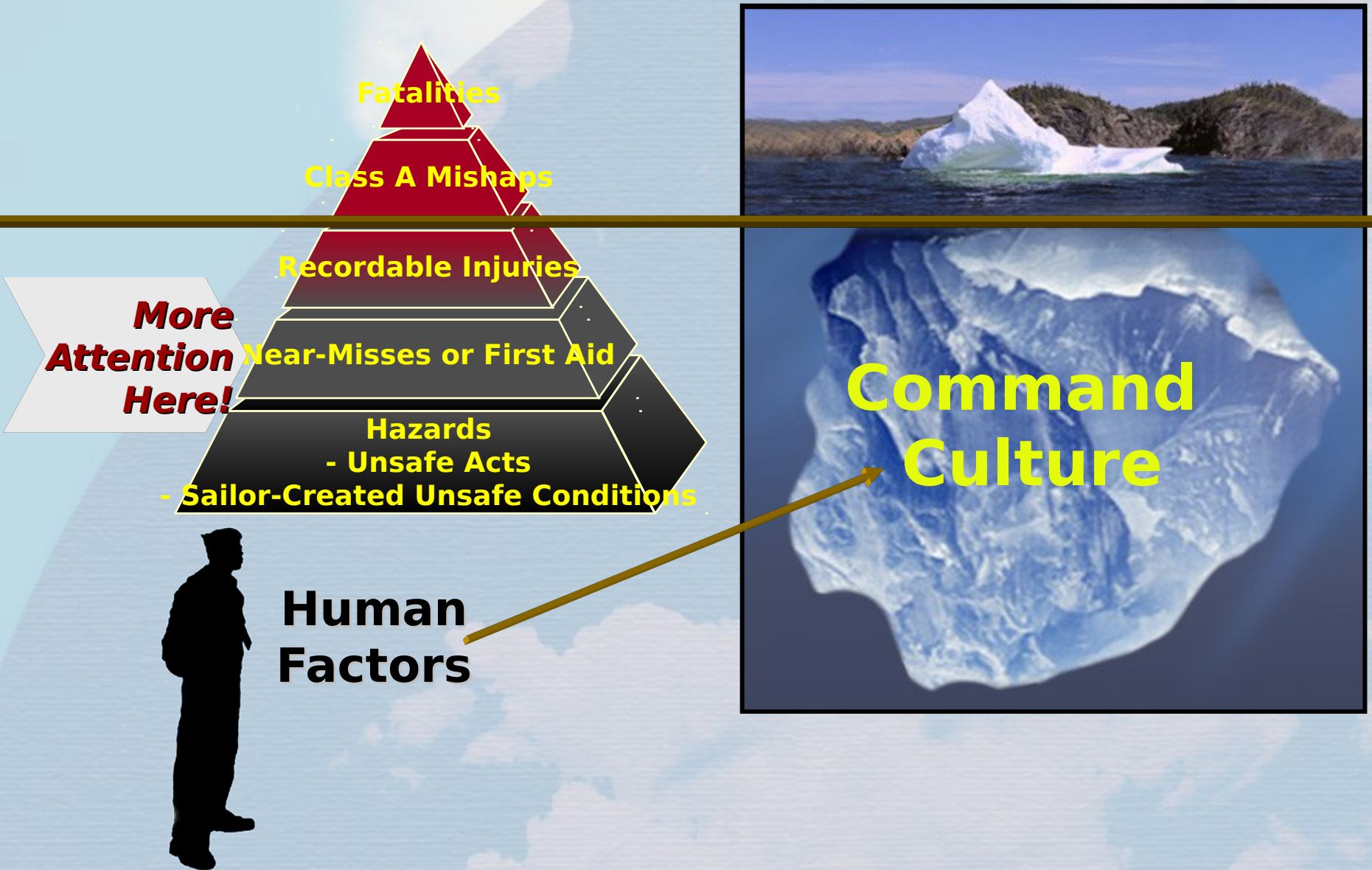
FISCAL YEAR	COST	
	OVERALL	AVIATION
FY99-03	\$ 3.8B	\$ 3.2B
FY02	\$683M	\$587M
FY03	\$1.024M	\$956M
FY04	\$1.193B	\$1.125B

DEATHS								
OVERALL	%	PMV			RECREATION			
		Air	Afloat	Shore	Air	Afloat %	Shore	
1,045	585 56%	96	128	361	141 13%	31	30	80
238	140 59%	30	32	78	32 13%	9	5	18
232	119 51%	17	31	71	32 14%	9	6	17
211	118 56%	16	20	82	32 15%	4	9	19

(\$\$\$ totals represent cost of all reported mishaps and includes cost of fatality IAW DOD 6055 and DOD property loss)



Leaders Focus on Culture





Status Check (PMV Fatalities)

1 year remains

Top Causal Factors

WHEN

Nighttime Driving
Use

Weekends
Speed

WHY

No Seat Belt

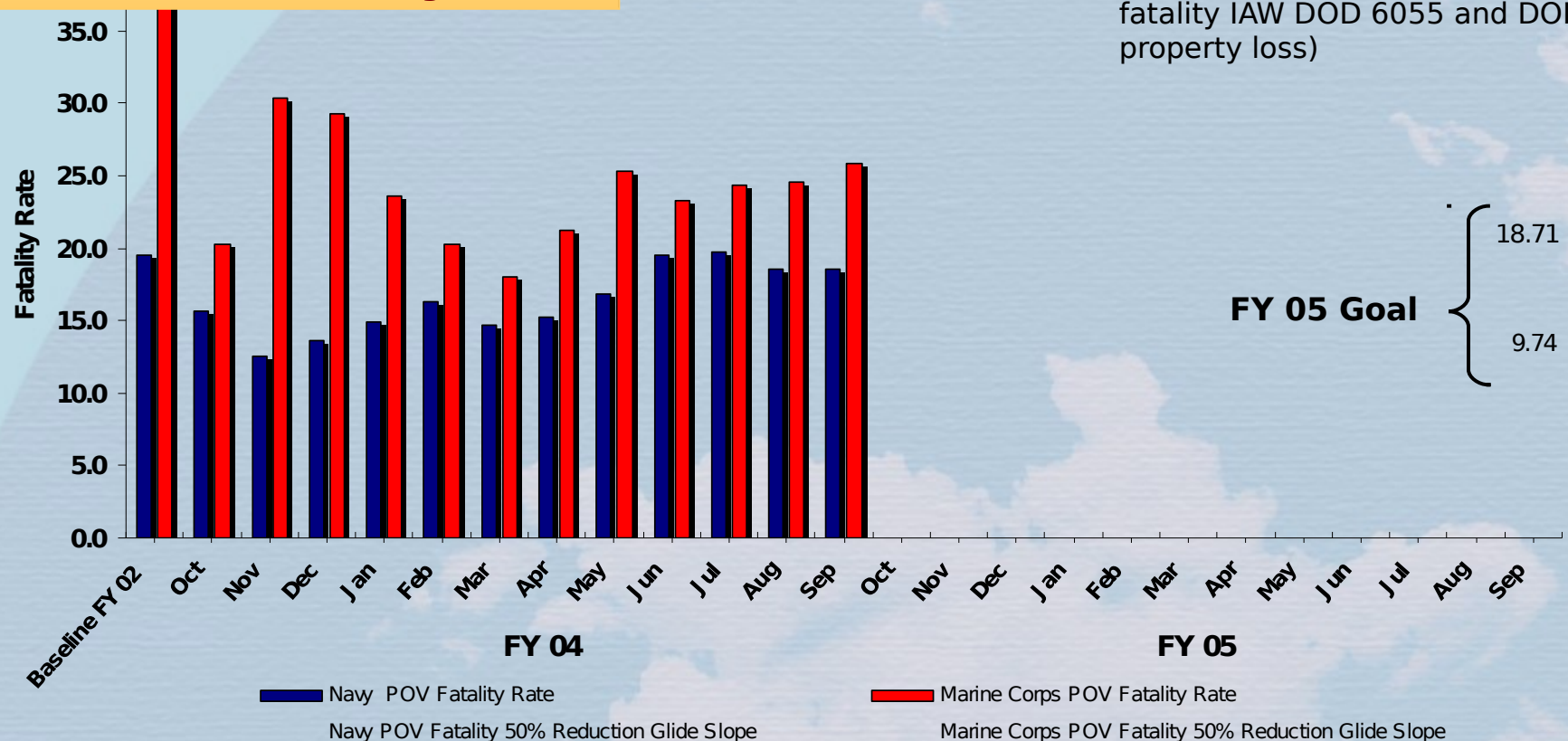
Excessive

Alcohol
Fatigue

FY04 Losses

USN	USMC
71 Fatalities	46 Fatalities
\$12.9 Million	\$11.6 Million

(\$\$\$ totals represent cost of all reported mishaps and includes cost of fatality IAW DOD 6055 and DOD property loss)





Status Check (Recreation/Off-Duty Fatalities)

1 year remains...

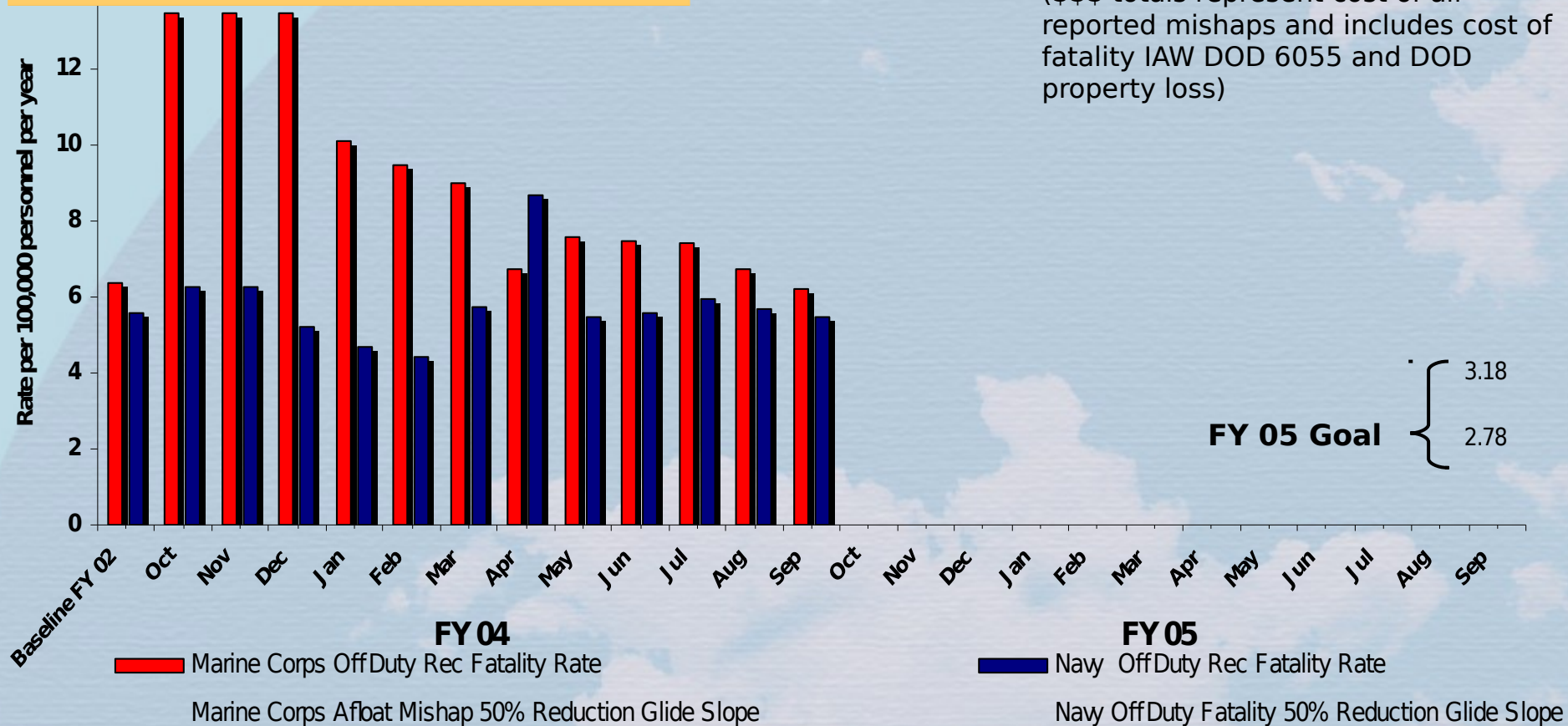
Leading Causes of Deaths & Injuries

- Drowning
- Falls
- Outdoor Recreation
- Team and Outdoor Sports
- Water Sports (jet skis, motorboat)

FY04 Losses

USN	USMC
21 Fatalities	11 Fatalities
\$6.1 Million	\$2.9 Million

(\$\$\$ totals represent cost of all reported mishaps and includes cost of fatality IAW DOD 6055 and DOD property loss)





Status Check (Class-A FM)

Leading Causal Factors

- **Human Error (89%)**

- Aircrew (breakdown in Crew Resource Management, poor decision making, failure to properly perform emergency procedures)

- Supervisory (failure to provide adequate guidance and training)

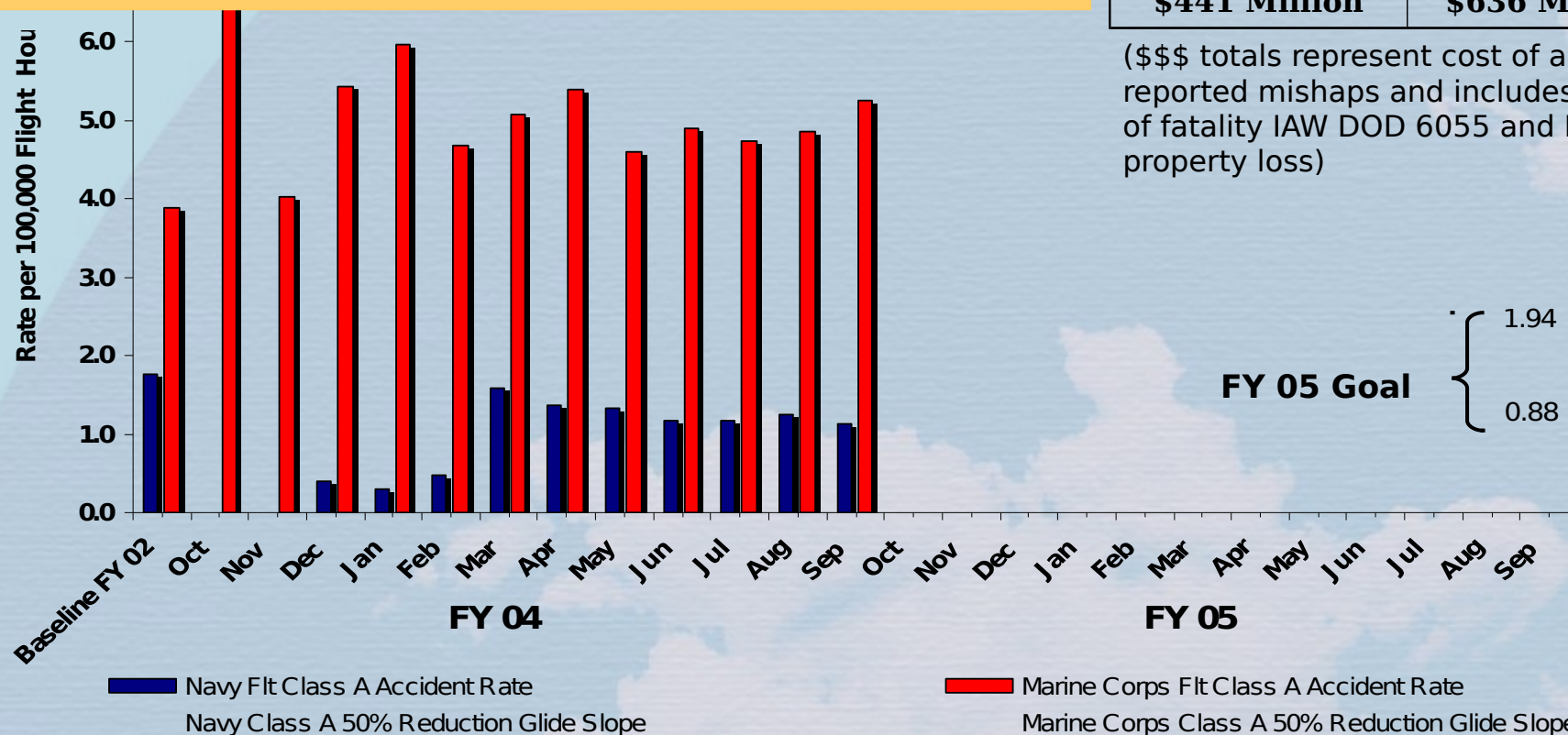
- **Material/Systems Malfunction (11%)**

- Material/component catastrophic failure (no human error involved)

FY04 Losses

USN	USMC
12 Mishaps	18 Mishaps
5 Fatalities	14 Fatalities
7 Aircraft Destroyed	16 Aircraft Destroyed
\$441 Million	\$636 Million

(\$\$\$ totals represent cost of all reported mishaps and includes cost of fatality IAW DOD 6055 and DOD property loss)





Status Check (Afloat Class-A Mishaps)

1 year remains

Top 5 Causal Factors

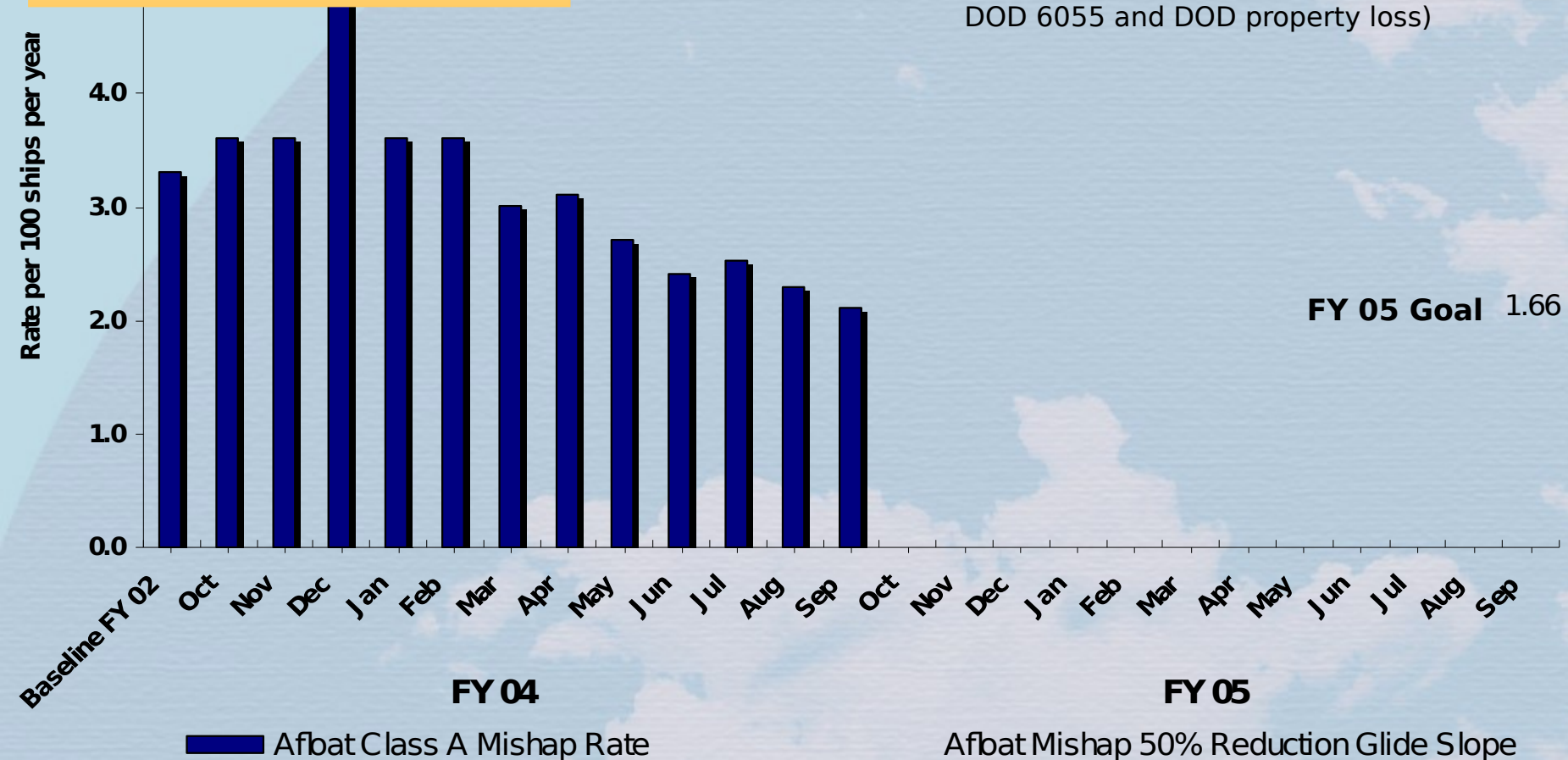
- Inadequate Supervision
- PMS not accomplished
- Poor Crew Resource Management
- Lack of Situational Awareness
- Complacency

USN FY04 Losses

7 Mishaps
Million

\$20.86

(\$\$\$ totals represent cost of all reported mishaps and includes cost of fatality IAW DOD 6055 and DOD property loss)





Status Check (Operational Shore/Ground Fatalities)

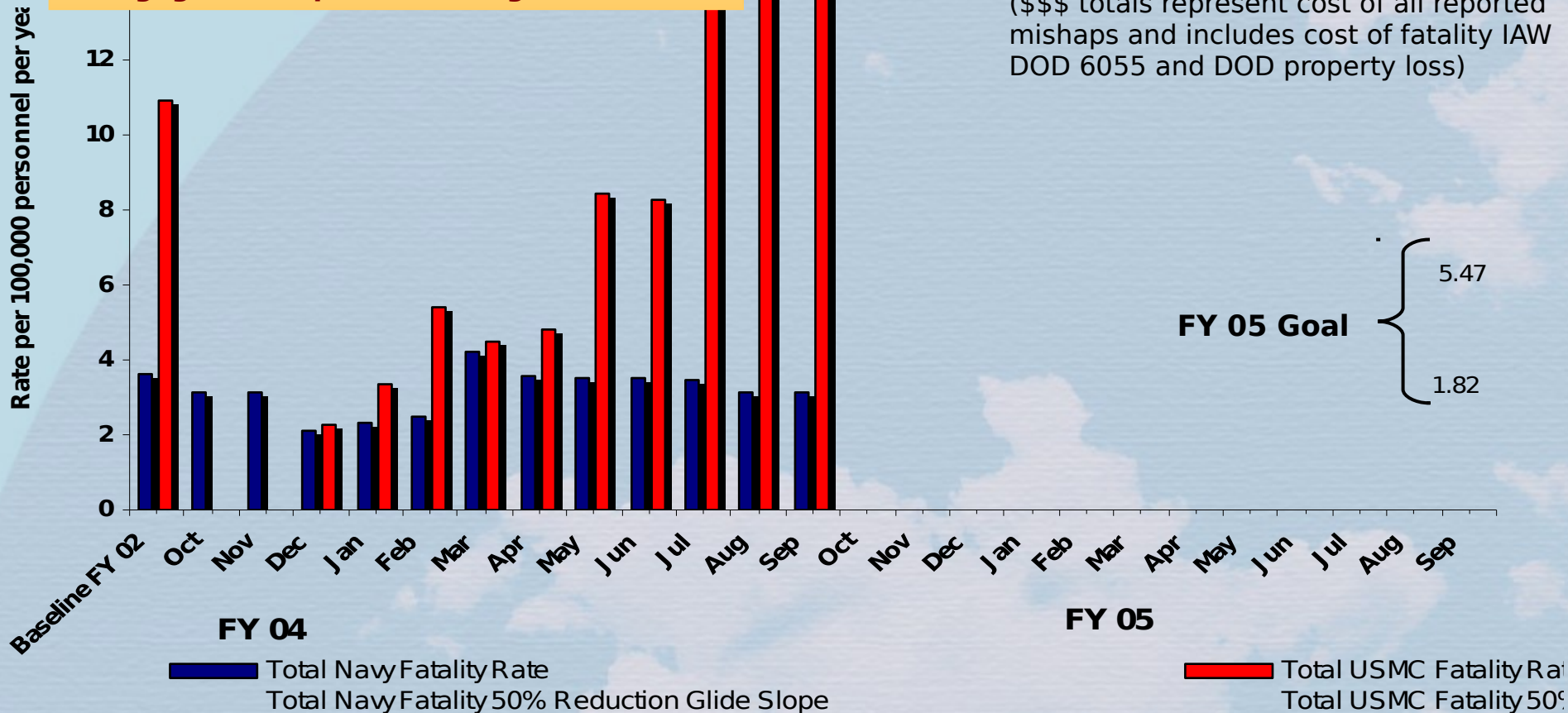
Leading Causes of Deaths

- Tactical Vehicles
- GMV Mishaps
- Industrial Mishaps (electrocutions, burns, falls)
- PRT
- Negligent Weapons Discharge

1 Year remains...

FY04 Losses	
USN	USMC
11 Fatalities	28 Fatalities
\$1.87 Million	\$1.45 Million

(\$\$\$ totals represent cost of all reported mishaps and includes cost of fatality IAW DOD 6055 and DOD property loss)

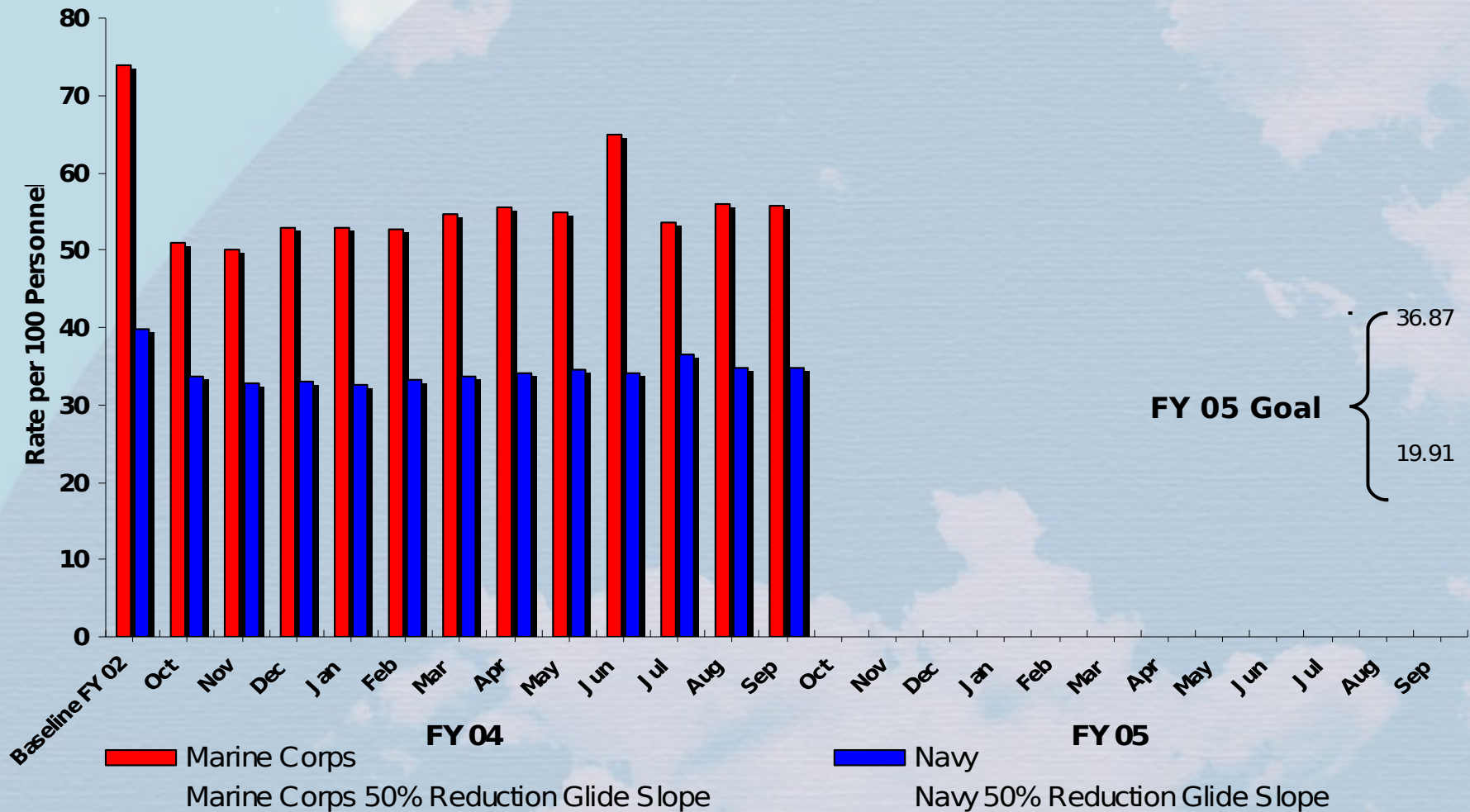


Note: Does not include casualties due to enemy action



Status Check (Civilian Lost Day Rates)

1 year remains...





Naval Safety Center Programs

- **Mishap Investigations**



- **Surveys**

- **50% Mishap Reduction Media Kits**

- **Navy Safety Campaign Plan**

- **Critical Days of Summer Campaign: Navy-wide, Website, Print**



- **Safety Outreach Program: Good Samaritan, Safety Stand Downs**

- **Community Partnerships: Chamber of Commerce, USAA**

- **Media Campaign: Video/Print/Broadcast**



- **Social Marketing: “Heaven Can Wait,” “Street Smart,” “None for the Road”**

- **Agency Partnerships: National Highway Traffic Safety Administration/Click It or Ticket, Drive Smart VA,**



- **Motorcycle Safety Foundation, VA ABC Department**

- **First Flag Notification**

- **Joint Initiatives with DASN(S), USMC, USA, USAF**



“Heaven Can Wait”

Social Marketing Safety Belt Video
Courtesy of
Duval Guillaume, Brussels

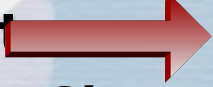



Is It Possible?

- “Platform” Type Mishaps - YES!
- “Off-Duty” Mishaps - HARD.
 - ***Can be done - but CHANGE a MUST!***



How To Get There

- CO sets the climate  **LEADERSHIP**
 - *Class-A Flight vs. Class-A PMV*
- Khaki and NCO/PO involvement
 - *What are your Sailors/Marines doing after hours?*
 - *Does the COC see the warning signs?*
 - *The “leadership hungry” 3rd Class Petty Officer and CPL*  **RISK MANAGEMENT**
- ORM
 - *Take it Off-Duty*
- Proactive vs. Reactive
- Accountability
- Human Error
- Is the “Safety Structure” in Place?
- Do Mr. & Mrs. USA care how their son, dad, husband, wife died?



Navy-Wide Challenges

There is still lots to be done!

Reporting &
Analysis

Eliminate or Reduce Top
Causal Factor of Mishaps:
Human Error (85%)

Performance Metrics
for Mishap Reduction

Eliminate or Reduce Highest
Cost, Fatalities, Injuries:
Aviation/PMV/REC

Culture Change:

- Leadership involvement necessary
- Reactive vice proactive
- Report class B/C mishaps
- Make safety a high priority

Funds for Safety Programs:

- USN-USMC Safety Council
≅ \$11.82M FY05-06
(\$2.08M USN & \$9.74M USMC)
- DASN(S) Funding Meeting
- Commander Naval Installations Funding Traffic/Recreation Programs
- Hire 25 Regional Traffic/Recreation Managers and Specialists

Emphasize
Accountability
and Responsibility:

Traffic and Recreation
Traffic Enforcement



***GOAL: ZERO
MISHAPS!***



What We Do For The Fleet

Naval Safety Center



Providing aviation, afloat, and shore support
to Navy and Marine Corps commands



NSC at your service... for free!

Let our experience, expertise and unrivaled
commitment to safety work for you.

Mishap Investigations

Surveys

Assist Visits

Data Analysis

Workshops

Publications

Website

Presentations

Exhibits

ON THE ROAD

- Culture workshops
- Unit surveys
- ORM unit training
- Mishap investigations
- USMC MTT seminars
- PCO briefings

AWARENESS

- Fleet Analysis
- Magazines printed/distributed (473,000 copies)
- Interactive CD's
- Acquisition process in-roads
- Safety advisories
- Customer information requests (3,600+ database queries per month)
- Safety Center web page

Call 757-444-3520 (DSN 564) or visit our website: www.safetycenter.navy.mil



Areas Flight Safety International Could Help Us

- Continued expansion and improvements of current simulator technology within both aviation and maritime fields.
- Tapping into Flight Safety's systems safety experience - **sharing lessons learned, program safety features, and new safety technology needs.**
- The single most valuable initiative to drive a successful safety program: Leadership, Culture, Money



Questions & Answers

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www.safetycenter.navy.mil